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primary responsibility for radiocommunications during distress incidents.

- (2) A second qualified GMDSS radio operator must be designated as backup for distress and safety radio-communications.
- (b) A qualified GMDSS radio operator, and a qualified backup, as specified in paragraph (a) of this section must be:
- (1) Available to act as the dedicated radio operator in cases of distress as described in §80.1109(a);
- (2) Designated to perform as part of normal routine each of the applicable communications described in §80.1109(b);
- (3) Responsible for selecting HF DSC guard channels and receiving scheduled maritime safety information broadcasts:
- (4) Designated to perform communications described in §80.1109(c);
- (5) Responsible for ensuring that the watches required by \$80.1123 are properly maintained; and
- (6) Responsible for ensuring that the ship's navigation position is entered, either manually or automatically through a navigation receiver, into all installed DSC equipment at least every four hours while the ship is underway.

§80.1074 Radio maintenance per sonnel for at-sea maintenance.

- (a) Ships that elect the at-sea option for maintenance of GMDSS equipment (see §80.1105) must carry at least one person who qualifies as a GMDSS radio maintainer, as specified in paragraph (b) of this section, for the maintenance and repair of equipment specified in this subpart. This person may be, but need not be, the person designated as GMDSS radio operator as specified in §80.1073.
- (b) The following licenses qualify personnel as GMDSS radio maintainers to perform at-sea maintenance of equipment specified in this subpart. For the purposes of this subpart, no order is intended by this listing or the alphanumeric designator.
- (1) GM: GMDSS Maintainer's License;
- (2) GB: GMDSS Operator's/Maintainer's License; or,
 - (3) Until February 1, 1999:

- (i) T-1: First Class Radiotelegraph Operator's Certificate;
- (ii) T-2: Second Class Radiotelegraph Operator's Certificate; or,
- (iii) G: General Radiotelephone Operator License.
- (c) While at sea, all adjustments of radio installations, servicing, or maintenance of such installations that may affect the proper operation of the GMDSS station must be performed by, or under the immediate supervision and responsibility of, a qualified GMDSS radio maintainer as specified in paragraph (b) of this section.
- (d) The GMDSS radio maintainer must possess the knowledge covering the requirements set forth in IMO Assembly on Training for Radio Personnel (GMDSS), Annex 5 and IMO Assembly on Radio Maintenance Guidelines for the Global Maritime Distress and Safety System related to Sea Areas A3 and A4.

[51 FR 31213, Sept. 2, 1986, as amended at 63 FR 49872, Sept. 18, 1998]

§80.1075 Radio records.

A record must be kept, as required by the Radio Regulations and §80.409 (a), (b) and (e), of all incidents connected with the radiocommunication service which appear to be of importance to safety of life at sea.

$\S 80.1077$ Frequencies.

The following table describes the frequencies used in the Global Maritime Distress and Safety System:

Alerting:

406 EPIRBs 406–406.1 MHz (Earth-tospace).
1544–1545 MHz (space-to-Earth).

INMARSAT A or C SES. (Earth-to-space).

VHF DSC Ch. 70 156.525 MHz (Earth-to-space).

MF/HF DSC 2 2187.5 kHz 3, 4207.5 kHz, 6312 kHz, 8414.5 kHz, 12577 kHz, and 16804.5 kHz.

On-scene commu-

nications:

VHF Ch. 16 156.8 MHz. MF 2182 kHz.

radiotelephony.

NBDP 2174.5 kHz.

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Communications involving aircraft: On-scene, includ-156.8 MHz4, 121.5 MHz5, 123.1 MHz, 156.3 MHz, ing search and 2182 kHz, 3023 kHz, rescue. 4125 kHz, and 5680 kHz6. Locating signals: 406 MHz EPIRB 121.5 MHz. beacons. 9 GHz radar 9200-9500 MHz. transponders. Maritime safety information (MSI): International 518 kHz7. NAVTEX. Warnings 490 kHz8, 4209.5 kHz9. 4210 kHz, 6314 kHz, NBDP 8416.5 kHz. 12579 kHz. 16806.5 kHz. 19680.5 kHz, 22376 kHz, 26100.5 kHz Satellite 1530-1545 MHz (space-to-Earth) 10. General distress and safety communications and calling: 1530-1544 MHz (space-to-Satellite Earth) and 1626.5-1645.5 (Earth-tospace) 10. Radiotelephony 2182 kHz, 4125 kHz, 6215 kHz, 8291 kHz, 12290 kHz, 16420 kHz, and 156.8 MHz. NBDP 2174.5 kHz, 4177.5 kHz, 6268 kHz, 8376.5 kHz, 12520 kHz, and 16695 kHz. DSC 2187.5 kHz, 4207.5 kHz, 6312 kHz, 8414.5 kHz,

Survival craft: VHF

radiotelephony.

156.8 MHz and one other 156-174 MHz frequency 9200-9500 MHz.

and 156.525 MHz.

12577 kHz. 16804.5 kHz.

9 GHz radar transponders.

transponders.

¹Frequency 156.525 MHz can be used for ship-to-ship alerting and, if within sea area A1, for ship-to-shore alerting.

²For ships equipped with MF/HF equipment, there is a watch requirement on 2187.5 kHz, 8414.5 kHz, and one other frequency.

³Frequency 2187.5 kHz can be used for ship-to-ship alerting and, if within sea areas A2, for ship-to-shore alerting.

⁴Frequency 156.8 MHz may also be used by aircraft for safety purposes only.

⁵Frequency 121.5 MHz may be used by ships for aeronautical distress and urgency purposes.

⁶The priority of use for ship-aircraft communications in 4125 kHz, then 3023 kHz. Additionally, frequencies 123.1 MHz, 3023 kHz, and 5680 kHz can be used by land stations engaged in coordinated search and rescue operations. and rescue operations.

⁷The international NAVTEX frequency 518 kHz is the primary frequency for receiving maritime safety information. The other frequencies are used only to augment the coverage or information provided on 518 kHz.

on 518 kHz.

*Frequency 490 kHz cannot be used for MSI employing NBDP transmissions until February 2, 1999.

*Frequency 4209.5 kHz is not used in the United States (see 47 CFR 2.106 footnote 520A).

10 In addition to EPIRBs, 1544–1545 MHz can be used for narrowband distress and safety operations and 1645.5–1646.5 MHz can be used for relay of distress alerts between satellites. Feeder links for satellite communications are assigned from the fixed satellite service, see 47 CFR 2.106.

EQUIPMENT REQUIREMENTS FOR SHIP **STATIONS**

§80.1081 Functional requirements.

Ships, while at sea, must be capable:

- provided Except as §§ 80.1087(a)(1) and 80.1091(a)(4)(iii), of transmitting ship-to-shore distress alerts by at least two separate and independent means, each using a different radiocommunication service;
- (b) Of receiving shore-to-ship distress alerts:
- (c) Of transmitting and receiving ship-to-ship distress alerts;
- (d) Of transmitting and receiving search and rescue co-ordinating communications;
- (e) Of transmitting and receiving onscene communications;
- (f) Of transmitting and receiving signals for locating;
- (g) Of transmitting and receiving maritime safety information;
- (h) Of transmitting and receiving general radiocommunications to and from shore-based radio sytsems or networks; and
- (i) Of transmitting and receiving bridge-to-bridge communications.

§80.1083 Ship radio installations.

- (a) Ships must be provided with radio installations capable of complying with the functional requirements prescribed by §80.1081 throughout its intended voyage and, unless exempted under §80.1071, complying with the requirements of §80.1085 and, as appropriate for the sea area of areas through which it will pass during its intended voyage, the requirements of either §§ 80.1087, 80.1089, 80.1091, or 80.1093.
 - (b) The radio installation must:
- (1) Be so located that no harmful interference of mechanical, electrical or other origin affects its proper use, and